

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 02/14002

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G06N3/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

INSPEC, EPO-Internal, WPI Data, PAJ, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	YAOCHU JIN ET AL: "Adapting weighted aggregation for multiobjective evolution strategies" EVOLUTIONARY MULTI-CRITERION OPTIMIZATION. FIRST INTERNATIONAL CONFERENCE, EMO 2001, ZURICH, SWITZERLAND, 7-9 MARCH 2001, pages 96-110, XP001148377 2001, Berlin, Germany, Springer-Verlag, Germany ISBN: 3-540-41745-1	1,4-9
Y	page 96, line 1 -page 100, line 9 --- -/--	2,3,10

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

### \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*8\* document member of the same patent family

Date of the actual completion of the international search

21 March 2003

Date of mailing of the international search report

08/04/2003

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FONSECA C M ET AL: "MULTIOBJECTIVE OPTIMIZATION AND MULTIPLE CONSTRAINT HANDLING WITH EVOLUTIONARY ALGORITHMS-PART I: A UNIFIED FORMULATION" IEEE TRANSACTIONS ON SYSTEMS, MAN AND CYBERNETICS. PART A: SYSTEMS AND HUMANS, IEEE SERVICE CENTER, US, vol. 28, no. 1, January 1998 (1998-01), pages S26-S37, XP001148135 ISSN: 1083-4427 the whole document	2,3
Y	YAOCHU JIN ET AL: "Managing approximate models in evolutionary aerodynamic design optimization" PROCEEDINGS OF THE 2001 CONGRESS ON EVOLUTIONARY COMPUTATION (IEEE CAT. NO.01TH8546), PROCEEDINGS OF THE 2001 CONGRESS ON EVOLUTIONARY COMPUTATION, SEOUL, SOUTH KOREA, 27-30 MAY 2001, pages 592-599 vol. 1, XP002235622 2001, Piscataway, NJ, USA, IEEE, USA ISBN: 0-7803-6657-3 abstract page 597, left-hand column, line 25 -page 598, right-hand column, line 16	10
A	BLUMEL A ET AL: "Multiobjective optimization of fuzzy logic scheduled controllers for missile autopilot design" PROCEEDINGS JOINT 9TH IFSA WORLD CONGRESS AND 20TH NAFIPS INTERNATIONAL CONFERENCE (CAT. NO. 01TH8569), PROCEEDINGS JOINT 9TH IFSA WORLD CONGRESS AND 20TH NAFIPS INTERNATIONAL CONFERENCE, VANCOUVER, BC, CANADA, 25-28 JULY 2001, pages 1758-1763 vol.3, XP002235623 2001, Piscataway, NJ, USA, IEEE, USA ISBN: 0-7803-7078-3 abstract page 1760, left-hand column, line 20 -page 1762, right-hand column, line 2 --- -/-	1

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>COELLO C A C: "Handling preferences in evolutionary multiobjective optimization: a survey"</p> <p>PROCEEDINGS OF THE 2000 CONGRESS ON EVOLUTIONARY COMPUTATION. CEC00 (CAT. NO.00TH8512), PROCEEDINGS OF 2000 CONGRESS ON EVOLUTIONARY COMPUTATION, LA JOLLA, CA, USA, 16-19 JULY 2000, pages 30-37 vol.1, XP002235624</p> <p>2000, Piscataway, NJ, USA, IEEE, USA</p> <p>ISBN: 0-7803-6375-2</p> <p>page 30, left-hand column, line 1 -page 33, left-hand column, line 16</p> <p>-----</p>	1